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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/563,043

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Javier Juanarena Saragueta

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EXAMINER

GONZALEZ, JULIO C

ART UNIT

PAPER NUMBER

2834

MAIL DATE

DELIVERY MODE

10/02/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/563,043	Applicant(s) JUANARENA SARAGUETA ET AL.	
	Examiner Julio C. Gonzalez	Art Unit 2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,6-8 and 12-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,7,8,12-17,19,21,23,25 and 26 is/are rejected.
- 7) ☒ Claim(s) 6,18,20,22 and 24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/05/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's arguments, see Appeal Brief, filed 08/01/08, with respect to the rejection(s) of claims have been fully considered and is persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of new art found. See office action below. Prosecution is being reopened.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 7, 8, 12 – 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feddersen (US 2005/0116476) in view of Feddersen et al (US 7,015,595) and Rosenberry, Jr. (US 3,894,274).

Feddersen discloses a control system for a double-fed generator having a rotor and stator and a converter having an inverter (elements V4-V6), grid inverter (elements V3-V1), DC-link (see element C3) and a clamping unit having clamping element (see figure 3, element *crowbar*). Moreover, a resistor element R15 (see

figure 1 & figure 3) is used for clamping a voltage. It is also disclosed that the resistance element can be connected in parallel (paragraph 0008) and that more than one resistor can be used (paragraph 0027) and that the clamping element is used when an over current is detected (paragraph 0019).

However, Feddersen does not disclose *explicitly* having an over voltage protection/detection device.

On the other hand, Feddersen et al discloses for the purpose of providing a precise control of electrical quantities on the power grid, a generator having a rotor and stator (see figure 1), rotor inverter 151, grid inverter 154, dc-link 152 and an over voltage protector 160 (see figure 1). Moreover, there is a protection device when there is a DC over voltage condition (see figure 2).

However, neither Feddersen nor Feddersen et al disclose using voltage dependent resistors.

On the other hand, Rosenberry, Jr. discloses for the purpose of preventing undesirable voltage peaks that it is well known in the art to use variable resistors 9-11 for protecting the field winding of electrical machines 1 (see figure 1).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design a control system as disclosed by Feddersen and to modify the invention by providing an over voltage protection discloses for the

purpose of providing a precise control of electrical quantities on the power grid as disclosed by Feddersen et al and to use variable resistors for the purpose of preventing undesirable voltage peaks as disclosed by Rosenberry, Jr.

3. Claims 2, 19, 21, 23, 25, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feddersen, Feddersen et al and Rosenberry, Jr. as applied to claim 1 above, and further in view of Gumley et al (US 6,226,166).

The combined control system discloses all of the elements above. However, the combined system does not disclose having a plurality of varistors connected in parallel.

On the other hand, Gumley et al discloses for the purpose of providing an efficient overvoltage protection for electrical equipment against transients on power lines that it is known in the art to have a plurality of variable resistors 14, 24, 44 connected in parallel (see figures 1, 2, 3, 4, 8, 9).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined control system as disclosed above and to have a plurality of variable resistors connected in parallel for the purpose of providing an efficient overvoltage protection for electrical equipment against transients on power lines as disclosed by Gumley et al.

Response to Arguments

4. Applicant's arguments with respect to claims 1, 2, 7, 8, 12 – 17, 19, 21, 23, 25, 26 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

5. Claims 6, 18, 20, 22, 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is 571-272-2024. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Julio C. Gonzalez/
Primary Examiner, Art Unit 2834

September 24, 2008

/J. C. G./
Primary Examiner, Art Unit 2834

/Darren Schuberg/
Supervisory Patent Examiner, Art Unit 2834